

ABSTRACT OF THE DISCLOSURE

The present invention provides an ultrasonic imaging system capable of extracting structure-emphasized image data in which the structure of a tissue in a living body is emphasized and texture-emphasized image data in which a texture pattern coming from properties of a tissue in a living body is emphasized from B-mode image data, and obtaining a synthesized image obtained by weighting and combining the two extracted image data pieces. An ultrasonic imaging system has: a structure extractor for extracting structure-emphasized image data in which a structure of a tissue in the living body is emphasized from B-mode image data of the living body; a texture pattern extractor for extracting texture-emphasized image data in which a texture pattern coming from properties of a tissue in the living body is emphasized; an image synthesizer for obtaining a synthesized image by weighting and combining the structure-emphasized image data and the texture-emphasized image data; and a display for displaying at least one of the structure-emphasized image data, the texture-emphasized image data, and the synthesized image.